

# Vorlon<sup>®</sup>

## FUNGICIDE

GROUP 1 FUNGICIDE

**Active Constituent:** 500g/L THIABENDAZOLE

**Poison Schedule:** Unschelded

**APVMA Approval No:** 61789



Eligible containers  
5L

For control of Dry Rot, Gangrene and Silver Scurf of Potato Tubers and specific rots and moulds of Fruit and fungal diseases of Bulbs, Corms, Turf and Mushrooms

**Pack Size:**  
5L (4 x 5L per carton)

**Dangerous Goods Class:**  
Not classified as a dangerous good under the Australian Code for Transport and Storage of Dangerous Goods in Australia.

### DIRECTIONS FOR USE

**Restraints: Material must be kept in suspension at all times by continuous agitation. If agitation stops, ensure the mix is resuspended before using.**

Crop	Pest	State	Rate	Critical Comments
Apples Pears	Blue Mould ( <i>Penicillium expansum</i> ) Grey Mould ( <i>Botrytis cinerea</i> ) Fruit Rot ( <i>Gloeosporium album</i> )	Qld, NSW, Vic, Tas, SA,WA only.	200mL Vorlon to 100L water	Immerse fruit for 30 seconds within 24 hours of harvesting. Vorlon should only be used for the postharvest treatment of apples and pears where fruit is dipped in either diphenylamine or ethoxyquin prior to storage.
Bananas	Squirter Disease ( <i>Nigrospora musae</i> ) Black-end Rot ( <i>Gloeosporium musarum</i> )	NSW, WA only	40mL Vorlon to 100L water	After the bananas have passed through the dehanding and/or washing operation, the fruit should be completely dipped in the prepared suspension of Vorlon for 2 to 4 minutes.
	Crown Rot and Black-end Rot ( <i>Colletotrichum musae</i> ) Also <i>Fusarium</i> , <i>Deightonella</i> and <i>Verticillium</i> spp.	Qld, WA only	85mL Vorlon to 100L water	
Bulbs Corms	<i>Fusarium</i> Basal Rot and <i>Penicillium</i> Blue Mould	Qld, NSW, Vic, Tas,SA,W A only	200 mL Vorlon to 100L water	Dip for 15 to 30 minutes within 24 hours of digging. After treatment, dry bulbs in a shaded and well ventilated area.



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Crop	Pest	State	Rate	Critical Comments
Citrus	Green and Blue Mould Rot ( <i>Penicillium digitatum</i> , <i>P.italicum</i> ) and Stem End Rot ( <i>Phomopsis citri</i> )	Qld, NSW, Vic, SA, WA only	200mL Vorlon to 100L water	Immerse fruit for 30 seconds within 24 hours of harvesting.
Mushrooms (peat moss for mushroom casing)	Wet Bubble Disease ( <i>Mycogone pernicioso</i> )	All States	23mL Vorlon per 50kg bale of peat moss (50 kg peat moss equals approx 170 to 200L)	Incorporate in water used to wet the peat moss at casing
Potatoes	Dry Rot ( <i>Fusarium</i> spp.) Gangrene ( <i>Phoma exigua</i> ) Silver Scurf ( <i>Helminthosporium solani</i> )	All States	4.5L of Vorlon to 100L water	Apply the suspension as a mist at the rate of 2 L per tonne over the potatoes on the conveyor line prior to storage
Turf Diseases	Dollar Spot ( <i>Sclerotinia homeocarpa</i> )	All states	38mL Vorlon per 100m <sup>2</sup> in 4L of water	Apply as a protective spray when infection first appears and then at 2 to 3 week intervals as required. For extensive damage, initial treatment should be at the high rate and then at 2 to 3 week intervals at the low rate
			56mL Vorlon per 100m <sup>2</sup> in 4L of water (900mL treats 1,600m <sup>2</sup> )	
	Fusarium patch ( <i>Fusarium nivale</i> )	All states	76mL Vorlon per 100m <sup>2</sup> in 4L of water (900mL treats 1,200m <sup>2</sup> )	Water in lightly. Repeat applications after 2 to 3 weeks may be required until disease is controlled

**NOT TO BE USED FOR ANY PURPOSE, OR IN ANY MANNER, CONTRARY TO THIS LABEL UNLESS AUTHORISED UNDER APPROPRIATE LEGISLATION. WITHHOLDING PERIOD, NOT REQUIRED WHEN USED AS DIRECTED.**

**GENERAL INSTRUCTIONS**

Vorlon Flowable SC is recommended for the post-harvest protection of apples and pears, bananas and citrus fruit from specific rots and moulds, and for the treatment of specific fungal diseases in bulbs, corms, mushrooms and turf. Vorlon Flowable SC also effectively controls Dry Rot (*Fusarium* spp.) Gangrene (*Phoma exigua*) and Silver Scurf (*Helminthosporium solani*) in potatoes. Before using Vorlon Flowable SC mixed with other chemicals consult the manufacturer. Shake the container before use to ensure uniform dispersion of contents before measuring quantity required. Clean mixing and spraying equipment before use. Fill the mixing tank with water to ¾ full and begin mechanical agitation. For all purposes except mushrooms and potatoes, add a wetting agent to the water prior to inclusion of Vorlon Flowable SC.



Fruit and bulbs should be washed prior to application of Vorlon Flowable SC suspension.

Fruit must be in complete contact with the suspension for at least 30 seconds.

Fruit should not be rinsed after treatment. Ensure that even and complete coverage of potatoes is obtained by adequate rotation of tubers along the conveyer line. Potatoes should be treated within 3 days of harvesting and grading prior to storage. For effective control of Silver Scurf, undertake the treatment within 4 weeks of crop maturity.

### **Fungicide Resistance Warning**

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Vorlon Flowable SC Fungicide is a member of the Benzimidazole group of fungicides. For fungicide resistance management Vorlon Flowable SC Fungicide is a Group 1 Fungicide.

Some naturally occurring individual fungi resistant to Vorlon Flowable SC Fungicide and other Group 1 fungicide may exist through normal genetic variability in any fungal population. The resistant individuals can eventually dominate the fungal population if these fungicides are used repeatedly. These resistant fungi will not be controlled by Vorlon Flowable SC fungicide or other Group 1 fungicides, thus resulting in a reduction in efficacy and possible yield loss. Since the occurrence of resistant fungi is difficult to detect prior to use. Colin Campbell (Chemicals) Pty, Ltd, accepts no liability for any losses that may result from the failure of Vorlon Flowable SC Fungicides to control resistant fungi.

### **PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT**

DO NOT contaminate streams, rivers or waterways with the chemical or used containers.

### **STORAGE AND DISPOSAL**

Keep out of reach of children. Store in the closed, original container in a cool, well ventilated area. DO NOT store for prolonged periods in direct sunlight. Triple or preferably pressure rinse containers before disposal. Add rinsings to spray tank. DO NOT dispose of undiluted chemicals on site. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling break, crush or puncture and bury empty containers in a local authority land fill. If no landfill is available, bury the containers below 500mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt. Unused or spent dip should be disposed of carefully to avoid contamination of water sources. Either spray the dip onto a grassed area or pour into a disposal pit specifically marked and set up for this purpose, at least 50 meters away from any streams, drains, channels, wells, bore holes or water courses.

### **SAFETY DIRECTIONS**

Harmful if absorbed by skin contact or swallowed. Avoid contact with eyes and skin. Wash hands after use.

### **FIRST AID**

If poisoning occurs contact a doctor or Poisons Information Center. Phone 131 126

### **MATERIAL SAFETY DATA SHEET**

If additional hazard information is required, refer to the Material Safety Data Sheet

### **CONDITIONS OF SALE**

Agricultural, horticultural and pastoral preparations in their application involve varying factors such as differing conditions, soil, climate and methods of application over which the vendor does not have control, Whilst Colin Campbell (Chemicals) Pty. Ltd believes that all goods sold by it are true to label and are effective and safe for purpose indicated the company and the seller hereby expressly negate and exclude any express or implied condition, statement or warranty, statutory or otherwise, as to quality or fitness of any goods sold for any purpose or purposes whatsoever except such warranties and conditions, if any, as are implied by the Trade Practices Act 1974 (Commonwealth). The company and the seller accept no responsibility for any loss, harm or damage whatsoever suffered from the use of such goods for any purpose or purposes irrespective of whether or not the buyer was acting in reliance upon the advice recommendation or representation of the seller or any representative agent of employee of the company as to such use except in respect of breaches of conditions and warranties, if any, implied by the Trade practices Act and in respect of such breaches the liability of the company and the seller shall be limited to the replacement of the goods or the supply of equivalent goods, or the payment of the cost of replacing the goods.

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